

In the claims:

Please substitute the following full listing of claims for the claims as originally filed or most recently amended.

1. (Original) A method for improving decoding throughput of compressed image data, said method comprising steps of partially decompressing said compressed image data to form partially decompressed data in an intermediate code, said compressed image data being incompatible with a hardware image decoder,

recompressing said intermediate code in accordance with a compressed format compatible with said hardware image decoder forming recompressed image data, said recompressing step being performed in a lossy manner, and

decoding said recompressed image data with a said hardware image decoder, whereby software processing for decoding of said compressed image data is reduced by hardware decoding of said recompressed image data.

2. (Original) A method as recited in claim 1, wherein said partially decompressed data is a packed intermediate code.

3. (Original) A method as recited in claim 2 wherein said packed code contains JPEG RS symbols and extra bits.

4. (Original) A method as recited in claim 3 wherein said packed format is of the form:

|N,FZKlast|DC|[ZRL,0xn0]|RS,E1|[E2,0x00]|...|EOB,0x--|[0x----]|.

5. (Original) The method as recited in claim 1, comprising the further steps of  
    decoding said compressed image data by software processing, and  
    substituting results of said decoding said compressed image data by software processing step for results of said hardware decoding.
6. (Original) The method as recited in claim 1 wherein said recompressed data is MPEG compressed data.
7. (Original) The method as recited in claim 1, wherein said step of partially decoding includes entropy decoding.
8. (Original) The method as recited in claim 1, including the further step of disabling oddification of said hardware image decoder.
9. (Original) The method as recited in claim 8, wherein said hardware image decoder is an MPEG video decoder.
10. (Original) The method as recited in claim 5, including the further step of disabling oddification of said hardware image decoder.
11. (Original) The method as recited in claim 10, wherein said hardware image decoder is an MPEG video decoder.
12. - 18. (Canceled)

19. (Original) The method as recited in claim 1 wherein said method is performed in a wireless telephone or video game.

20. (Original) The method as recited in claim 1 wherein said recompressed data includes motion vectors computed from translation or panning coordinates.

21. (Original) The method as recited in claim 20 wherein said motion vectors are restricted to JPEG block boundaries.

22. (Original) The method as recited in claim 20 wherein said recompressed data includes predictive coding.

23. - 25. (Canceled)

26. (Original) The method recited in claim 1 wherein said compressed format compatible with said hardware image decoder is not compatible from outside said hardware image decoder.